CAUTION

1. SAVE THIS INSTRUCTIONS- This manual contains important safety and operating instructions for the A200CM-XX battery charger.
   Please read the caution of batteries or devices you want to charge firstly!
2. When charging, batteries can emit explosive gases, therefore it is essential to prevent flames and sparks. The charger is designed for charging specified Lead-acid type batteries . Do not use for any other purpose.
3. Always provide good ventilation when charging.
4. Use of an attachment not recommended or sold by Green-Digital Power-tech may result in a risk of fire, electric shock or serious injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by the plug rather than by the cord when disconnecting charger.
6. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure that: a) Pins on plug of extension cord are the same number, size and shape as those of plug on charger; b) Extension cord is properly wired and in good electrical condition; and c) Wire size is large enough for ac ampere rating as specified in “technical data”.
7. Do not operate charger with a damaged cord or plug-return the charger to the place where purchased.
8. Never operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way; take is to a qualified serviceman.
9. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire.
10. To reduce risk of electric shock, unplug charger from AC outlet before attempting any maintenance or cleaning. Turning off controls will not reduce the risk.

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Green Digital Power

A200CM-XX 12~48V

Lead-Acid VRLA Battery Charger

User’s Manual

March, 2011 Rev:1.0

Green Digital Power-tech Co., Ltd.

Brief Introduction

A200CM-xx family is a main member of digital-chargers from Green Digital Power-tech Co., Ltd. It is designed for 12V~48V Lead-Acid type battery such as VRLA, AGM, GEL, SLA and Wet type battery. A200CM-xx programmed 3 auto stages (CC-CV-Floating) charging process. “CC” means constant current charging, the charge current is not changed during this stage. “CV” stage is followed “CC”, the output voltage is limited on a specified value and not changed at this stage, until the battery is charged completely and then charger will enter floating stage, this stage also called “maintenance stage”.

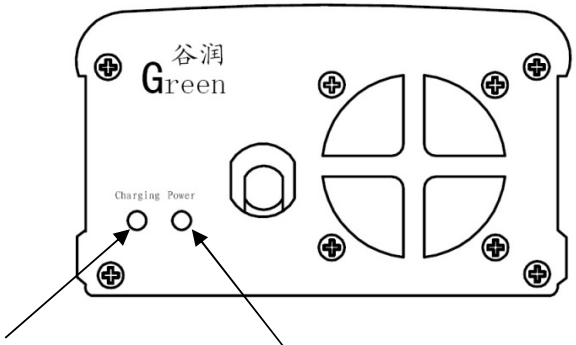
For more safety, A200CM-xx has more protections function, such as when the battery polarity reversed protection or the output connectors shorted protection.

General Specification for A200CM-XX

Input Voltage: AC 110V or 240V 50/60Hz				
Input Current: 3.0A at AC120V; 1.6A at AC 230V				
Output	**A200CM-12**	**A200CM-24**	**A200CM-36**	**A200CM-48**
C.V	13.8V	27.6V	41.4V	55.2V
C.C	12.0A	7.0A	5.0A	4.0A
Operating	-10℃~40℃			
Cooling	Fan cooling designing. Do not cover the charger during charging			
Charge process	Auto 3 stages: CC-CV-Floating			
Battery	12V~48V 20 ~ 100Ah Lead-Acid type Batteries			
Size	210X93X53mm			
Enclosure	Aluminum alloy housing			
Connector	AC inlet type C14; DC output terminals to be defined by user			
Weight	850g			

How to use:

1) Connect the AC cord to the socket, The “Power” LED lamp will light on and “Charging” LED lamp will be extinguished.
2) Connect DC plug with your matched Li-ion or LiFePO4 battery-pack, then the “Charging” LED lamp will turn to solid “RED” color and the charging process is working correctly. If the battery polarity reversed or output shorted, this LED lamp will display “RED flashing”, please check and remove errors connected.
3) When the battery full charged, the “Charging LED” lamp will turn to solid “GREED” color. That means your battery is full charged and you can disconnect DC plug and AC power line.



Charging LED
RED for charging
GREEN for full charged
RED FLASHING for errors
OFF for no battery connected

Power LED
RED for power on
OFF for no AC power input